EXPERIMENT NO. 2

TITLE: Electronic Modelling & Simulation of A Stabilised Dc Supply

AIM:

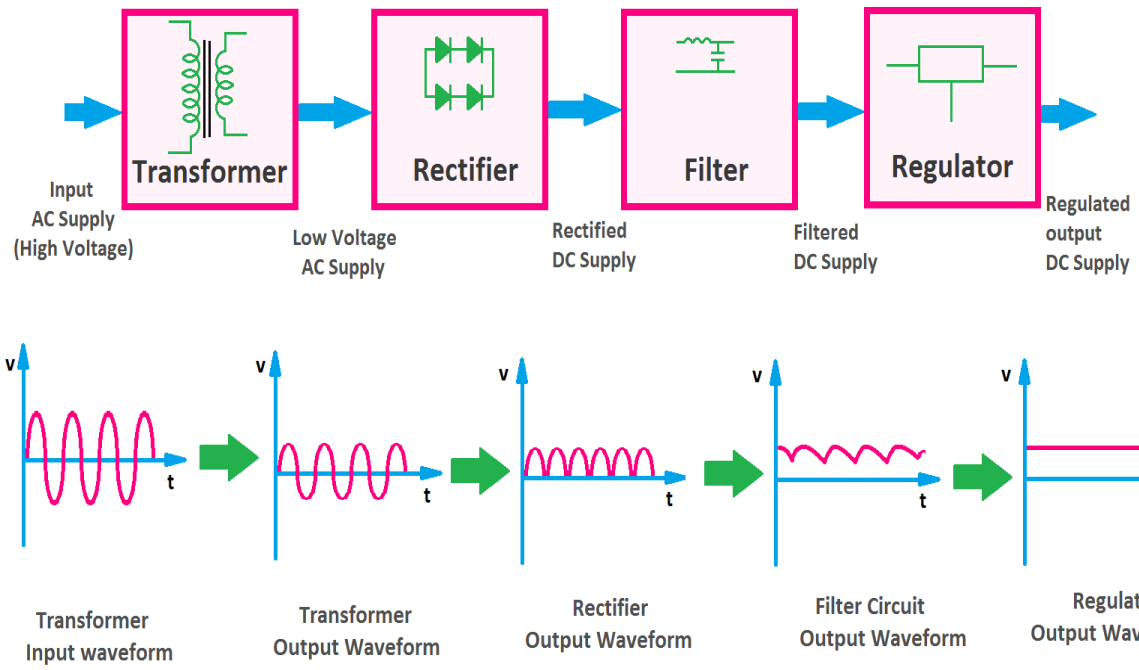
1. To model, design and simulate an electronic circuit that produces a constant dc supply using Multisim simulation software/tool.
2. To measure the input and output voltage.
3. To display the input and output waveform on the oscilloscope.

APPARATUS: Multisim software, transformer, oscilloscope, voltage regulator IC 7805, bridge rectifier, capacitor

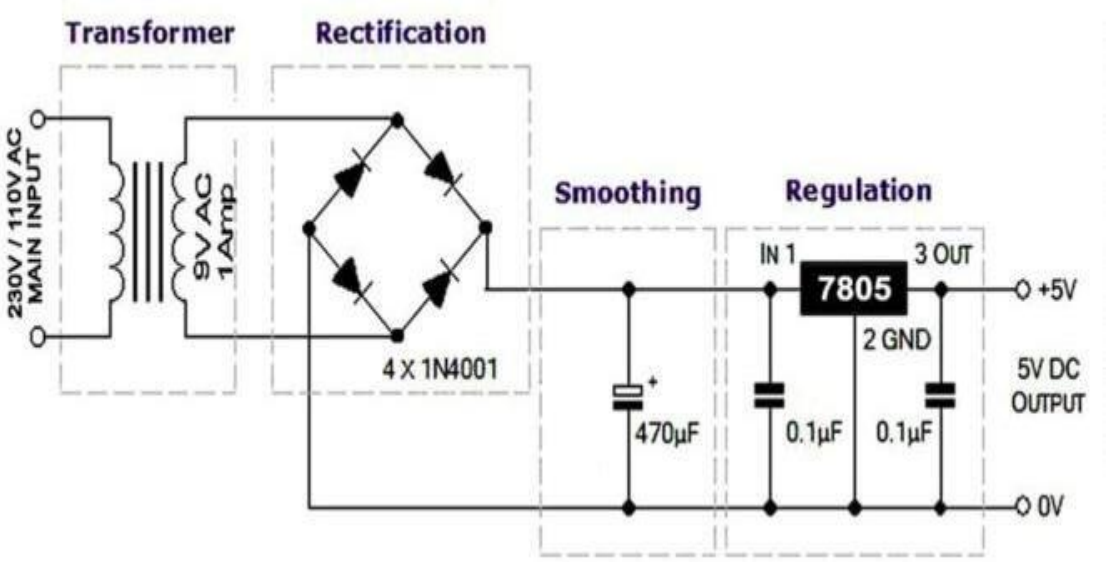
THEORY:

Regulated power supply is used to provide a constant or fixed voltage. It converts the unregulated supply into a regulated supply.

BLOCK DIAGRAM:



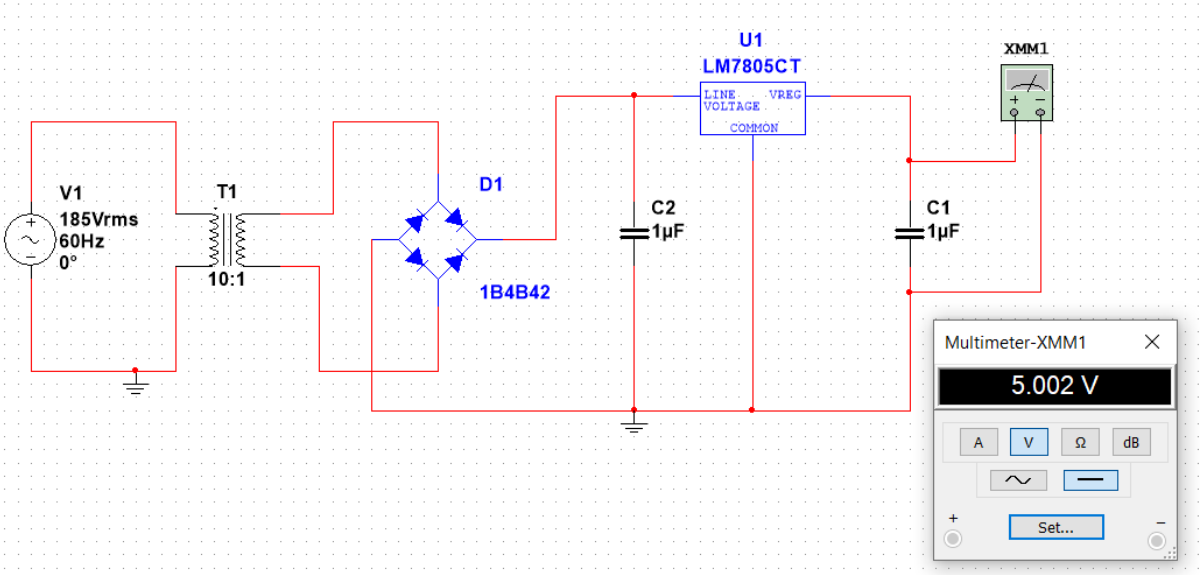
CIRCUIT DIAGRAM:

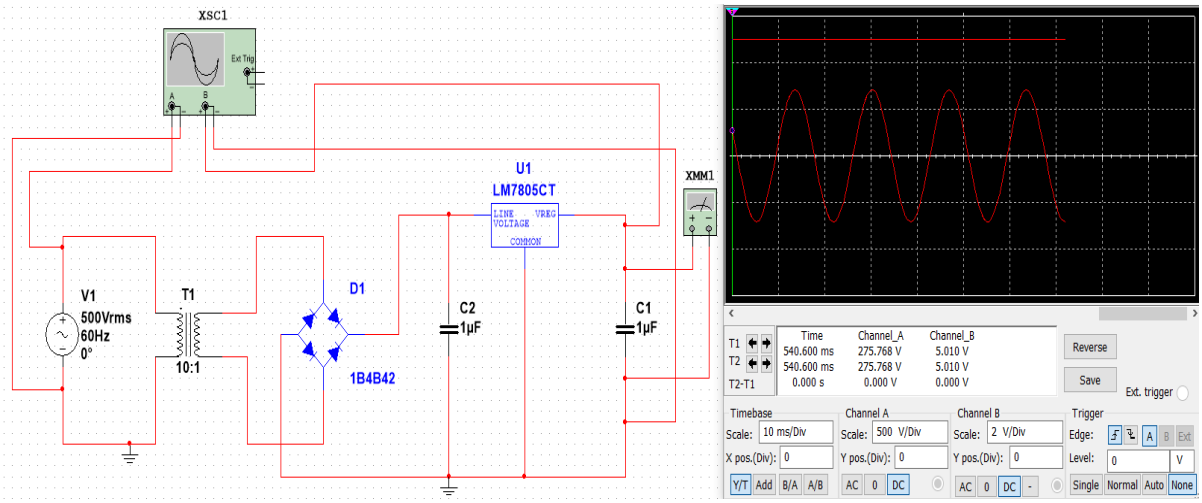


OBSSERVATION TABLE:

S.No.	Input Voltage AC	Output Voltage DC

SIMULATION RESULTS:





ASSIGNMENT QUESTIONS:

Q1.Describe the working operation of stabilized dc supply.

Q2.State the advantages, disadvantages and applications of a stabilized dc supply.